

A photograph of an elderly man and woman smiling and embracing each other. The man is on the left, wearing a light-colored sweater over a collared shirt. The woman is on the right, wearing a light-colored cardigan over a yellow top. They are both looking towards the camera with warm, joyful expressions.

# BIOCYST

STERILE SODIUM HYALURONATE SOLUTION FOR TEMPORARY  
GAG REPLENISHMENT IN THE BLADDER

SODIUM HYALURONATE FROM NON-ANIMAL ORIGIN SOURCE

biotech

VISION CARE

# What is Biocyst...

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- BIOCYST is a sterile, non pyrogenic solution of Sodium hyaluronate in sterile isotonic base.
- It contains Sodium Hyaluronate 40mg/50ml.
- No animal protein is contained in Biocyst as it is made up of Sodium hyaluronate derived from bacterial frementation source.



# What is Cystitis and how does Biocyst help in relieving pain...

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- Cystitis is glycosaminoglycan (GAG) layer deficiency in the wall of the bladder. Once the mucous wall of the bladder is compromised by this deficiency; it becomes susceptible to irritation and inflammation. The damage can be caused by toxins in the urine, bacteria, radiation, infection and other factors yet to be identified. Cystitis can lead to bladder pain and bleeding as well as the need to urinate so frequently that a normal life is impossible.
- Sodium Hyaluronate is the structural backbone of the extracellular protective layer. It temporarily replaces the GAG layer. It can help to rebuild the bladder wall structure by:
  - Repairing the GAG deficiency
  - Reconstructing the urine tissue barrier
  - Avoiding the passage of potentially inflammatory solutes
- By temporarily replacing the GAG layer in patient's bladder, Biocyst helps to relieve pain and the urgent need to urinate that is common symptom among patients with cystitis. Biocyst also shows preventive effect in bacterial cystitis and radiation induced cystitis.

# Who gets affected by Cystitis

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- Cystitis can affect people of any age, race, or sex. It is, however, most commonly found in women. It is a disease marked by periods with flare-ups and remission and its symptoms can be exacerbated by menstruation, urinary tract infections, diet and sexual intercourse. The condition affects people in all walks of life.
- The symptoms of Cystitis are similar to other disorders of the urinary system. There is no definitive test to identify it and therefore, doctors must exclude other potential conditions before considering a diagnosis of Cystitis.
- Bladder pain, frequent urination, and even painful sexual intercourse can have significant impact on the long-term quality of your life. If you have the symptoms of Cystitis, consult your physician immediately.

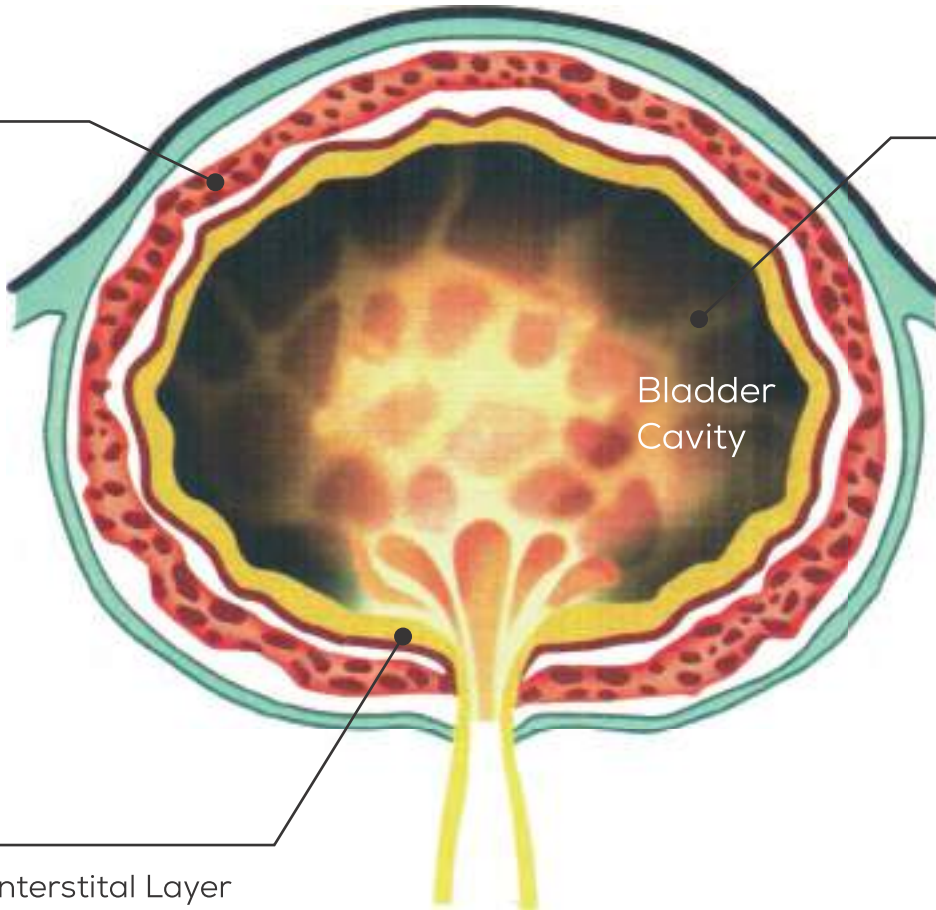
## Signs & Symptoms

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- The signs and symptoms of Cystitis vary from person to person. In addition, the symptoms of each affected person may vary over time.
- Common symptoms are:
  - Persistent, urgent need to urinate.
  - Frequent urination that occurs both during the day and during the night, yet you may pass only small volumes of urine each time.
  - People with cystitis may urinate as often as 60 times a day.
  - Pain in your pelvis (suprapubic) or between the vagina and anus in women or the scrotum and anus in men (perineal).
  - Pelvic pain during sexual intercourse. Men may also experience painful ejaculation.
  - Chronic pelvic pain
- More than 15 percent of people affected by cystitis experience only symptoms of pain, and at least 30 percent experience only frequent, urgent urination. Most affected people, however, experience both pain and frequent, urgent urination.

Muscle

GAG



Bladder  
Cavity

Inflamed Interstitial Layer



## Method of use of Biocyst

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- Instill the entire volume of BIOCYST into the bladder after residual urine has been removed.
- BIOCYST must be held in the bladder for minimum 20 to 30 minutes.
- The GAG layer of the bladder is deficient in cystitis. This deficiency contributes to the clinical symptoms in diseases such as interstitial cystitis and cystitis caused by infections, trauma, urolithiasis, urinary retention and neoplasia.
- To improve cystitis associated with these conditions, it is recommended that BIOCYST be instilled into the bladder each week for four to treatments and then monthly until symptoms resolve. The attending urologist should direct any prophylactic use of BIOCYST.

## Supply of Biocyst

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- 1 X 50 ml vial containing Sodium Hyaluronate 40 mg / 50 ml.

